

(43) International Publication Date 27 January 2005 (27.01.2005)

(10) International Publication Number WO 2005/007869 A3

(51) International Patent Classification: C12Q 1/68 (2006.01) C07H 21/04 (2006.01) C12P 19/34 (2006.01) WI 53528 (US). CHEHAK, LuAnne [US/US]; 4430 Saratoga Drive, Janesville, WI 53546 (US).

(21) International Application Number:

PCT/US2004/022014

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(22) International Filing Date:

9 July 2004 (09.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/486,273 60/535,747 10 July 2003 (10.07.2003) US 12 January 2004 (12.01.2004) US

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

(88) Date of publication of the international search report: 11 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ASSAYS FOR THE DIRECT MEASUREMENT OF GENE DOSAGE

(57) Abstract: The present invention relates to compositions, methods, and kits for quantifying variations in gene copy number, e.g., of individual genes or of chromosomes or portions of chromosomes in an homogeneous reaction, without the need for target amplification, fragment size resolution, or microscopy.

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INTERNATIONAL SEARCH		REPORT	International appli	International application No.	
			PCT/US04/22014		
A. CLASSIFICATION OF SUBJECT MATTER IPO(8) : Cl2Q 1/68; Cl2P 19/34; C07H 21/04 US CL : 433/6, 91.21 36/20.1, 24.3 According to International Patent Classification (IPC) or to both national classification and IPC B. FIBLOS SEARCHED					
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Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/6, 91.21536/23.1, 24.3					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international scarch (name of data base and, where practicable, scarch terms used) East, Medine					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			 	
Category =	Citation of document, with indication, where	appropriate, of the	refevant passages	Refevant to claim No.	
<u>x</u>	US 5,888,740 (HAN) 30 March 1999 (30.03.1999)			1-3,5	
Further	documents are listed in the continuation of Box C.				
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/22014

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This interna	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
	cional Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. Remark on I	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5 The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)

INTERNATIONAL SEARCH REPORT	PCT/US04/22014
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACK! Group I, claim(s) 1-5, drawn to a method for selecting a chromosome-specific seque	NG nce.
Group II, claim(s) 6-16, drawn to a method of detecting ancuploidy of a chromosom	e in a subject.
Group III, claim(s) 17-23, drawn to a kit comprising oligonucleotides for detecting a	it least one exon.
The inventions listed as Groups I-III do not relate to a single general inventive conce 13.2, they lack the same or corresponding special technical features for the following one another through oligonucleotides that allow for the detection of exons in a target arrays of oligonucleotides that can be used in assays. As set forth in column 9, he are the array of Brennan has as an inherent property oligonucleotides that will allow for in any target sequence. Given that the oligonucleotides were known in the art prior to inventions of Groups I-III are not linked by a special technical feature so as to have the special technical feature so as to have the sequence.	g reasons: The inventions of Groups I-III are related to a sequence. U.S. Patent 5,474,796 (Brennan) discloses reay can comprise all possible 10-mers. Accordingly, the detection of any and all possible exons of interest to the priority date of the instant application, the
It is noted that the lack of unity mailed 19 Sept. 2005 included claims 13-16 in group on group II and therefore have not been examined n this search report.	o I however this was an error as claims 13-16 read only